

ABSTRACT OF THE DISCLOSURE

An evaporator system comprised of two individual refrigerant circuits, integrated in such a way that if one circuit is not in operation, no portion of the airflow through the evaporator fails to come into contact with the refrigerant in the active circuit. This eliminates the possibility of so-called bypass air (air passing through inactive region of evaporator). An extreme example of bypass air is illustrated in the use of a split face evaporator where on half of the evaporator is active and the other half is inactive. The purpose of such an integrated dual circuit evaporator being to improve part load performance of a refrigerating or air conditioning system when one circuit of the system is inactive.

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